

SEQUENCE PROTOCOL

10/549262
JC17 Rec'd PCT/PTO 12 SEP 2005

<110> Forschungszentrum Jülich GmbH

<120> Method for Microbial Production of L-serine

<130> PT 1.2057

<140>

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<170> PatentIn Ver. 2.1

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<211> 1449

<212> DNA

<213> Corynebacterium glutamicum

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1

5

10

15

Ser Ser His Thr Val Gly Pro Met Arg Ala Ala Leu Thr Tyr Ile Ser

20

25

30

Glu Phe Pro Ser Ser His Val Asp Ile Thr Leu His Gly Ser Leu Ala

35

40

45

Ala Thr Gly Lys Gly His Cys Thr Asp Arg Ala Val Leu Leu Gly Leu

50

55

60

Val Gly Trp Glu Pro Thr Ile Val Pro Ile Asp Ala Ala Pro Ser Pro

65

70

75

80

Gly Ala Pro Ile Pro Ala Lys Gly Ser Val Asn Gly Pro Lys Gly Thr

85

90

95

Val Ser Tyr Ser Leu Thr Phe Asp Pro His Pro Leu Pro Glu His Pro

100

105

110

Asn Ala Val Thr Phe Lys Gly Ser Thr Thr Arg Thr Tyr Leu Ser Val

115

120

125

Gly Gly Gly Phe Ile Met Thr Leu Glu Asp Phe Arg Lys Leu Asp Asp

130

135

140

Ile Gly Ser Gly Val Ser Thr Ile His Pro Glu Ala Glu Val Pro Cys

145

150

155

160

Pro Phe Gln Lys Ser Ser Gln Leu Leu Ala Tyr Gly Arg Asp Phe Ala

165

170

175

Glu Val Met Lys Asp Asn Glu Arg Leu Ile His Gly Asp Leu Gly Thr

180

185

190

Val Asp Ala His Leu Asp Arg Val Trp Gln Ile Met Gln Glu Cys Val

195

200

205

Ala Gln Gly Ile Ala Thr Pro Gly Ile Leu Pro Gly Gly Leu Asn Val

210

215

220

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Cys Glu Leu Gly Ala Asp Leu Asp Ala Val Glu Trp Val Asn Leu Tyr
245 250 255

Ala Leu Ala Val Asn Glu Glu Asn Ala Ala Gly Gly Arg Val Val Thr
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Ala Pro Thr Asn Gly Ala Ala Gly Ile Ile Pro Ala Val Met His Tyr
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Ala Arg Asp Phe Leu Thr Gly Phe Gly Ala Glu Gln Ala Arg Thr Phe
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Leu Tyr Thr Ala Gly Ala Val Gly Ile Ile Ile Lys Glu Asn Ala Ser
305 310 315 320

Ile Ser Gly Ala Glu Val Gly Cys Gln Gly Glu Val Gly Ser Ala Ser
325 330 335

Ala Met Ala Ala Ala Gly Leu Cys Ala Val Leu Gly Gly Ser Pro Gln
340 345 350

Gln Val Glu Asn Ala Ala Glu Ile Ala Leu Glu His Asn Leu Gly Leu
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Thr Cys Asp Pro Val Gly Gly Leu Val Gln Ile Pro Cys Ile Glu Arg
370 375 380

Asn Ala Ile Ala Ala Met Lys Ser Ile Asn Ala Ala Arg Leu Ala Arg
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Ile Gly Asp Gly Asn Asn Arg Val Ser Leu Asp Asp Val Val Val Thr
405 410 415

Met Ala Ala Thr Gly Arg Asp Met Leu Thr Lys Tyr Lys Glu Thr Ser
420 425 430

Leu Gly Gly Leu Ala Thr Thr Leu Gly Phe Pro Val Ser Met Thr Glu
435 440 445

Cys